

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Original): A process for preparing dendritic or hyperbranched polyurethanes by

1) reacting diols or polyols having at least one tertiary nitrogen atom and at least two hydroxyl groups of differing reactivity toward isocyanate groups with diisocyanates or polyisocyanates to form an addition product, with the diols or polyols and diisocyanates or polyisocyanates being selected so that the addition product has, on average, one isocyanate group and more than one hydroxyl group or one hydroxyl group and more than one isocyanate group,

2) converting the addition product from step 1) into a polyaddition product by intermolecular reaction of the hydroxyl groups with the isocyanate groups, and with a reaction with a compound containing at least two hydroxyl groups, mercapto groups, amino groups or isocyanate groups also being able to be carried out first,

3) if desired reacting the polyaddition product from step 2) with a compound containing at least two hydroxyl groups, mercapto groups, amino groups or isocyanate groups.

Claim 2 (Original): A process as claimed in claim 1, wherein the diols are reacted with polyisocyanates or polyols are reacted with diisocyanates in step 1).

Claim 3 (Currently Amended): A The process as claimed in claim 1 or 2, wherein the diols or polyols used in step 1) are aliphatic.

Claim 4 (Currently Amended): A The process as claimed in claim 1 any of claims 1 to 3, wherein the diols or polyols used in step 1) are obtained by Michael addition of compounds having at least one primary or secondary amino group and at least one hydroxyl group onto ethylenically unsaturated compounds having at least one hydroxyl group.

Claim 5 (Original): A process as claimed in claim 4, wherein the ethylenically unsaturated compound is selected from among (meth)acrylates of diols or polyols, vinyl alcohols and allyl alcohols.

Claim 6 (Original): A process as claimed in claim 5, wherein the ethylenically unsaturated compound is a (meth)acrylate of an aliphatic diol which is reacted with an aliphatic amino alcohol which has one primary or secondary amino group and one, two or three hydroxyl groups.

Claim 7 (Currently Amended): A The process of claim 1 process as claimed in any of claims 1 to 6, wherein only or predominantly the hydroxyl groups of the diols or polyols having the higher reactivity toward isocyanate groups are reacted with the isocyanate groups in step 1) and the hydroxyl groups of the diols or polyols having the lower reactivity toward isocyanate groups are reacted in step 2).

Claim 8 (Currently Amended): A dendritic or hyperbranched polyurethane obtainable by ~~a process as claimed in any of claims 1 to 7~~ the process of claim 1.

Claim 9 (Original): A dendritic or hyperbranched polyurethane as claimed in claim 8, which has, on average, at least three terminal hydroxyl and/or isocyanate groups.

Claim 10 (Currently Amended): The use of a dendritic or hyperbranched polyurethane as claimed in ~~claim 8 or 9~~ claim 8 as component for producing polyaddition or polycondensation polymers, coatings, paints and varnishes, adhesives, sealants, casting elastomers and foams and as phase compatibilizers, rheological aids, thixotropes, nucleating agents or as carriers for active compounds or as catalyst support.

Claim 11 (New): The process as claimed in claim 2, wherein the diols or polyols used in step 1) are aliphatic.

Claim 12 (New): The process of claim 2, wherein the diols or polyols used in step 1) are obtained by Michael addition of compounds having at least one primary or secondary amino group and at least one hydroxyl group onto ethylenically unsaturated compounds having at least one hydroxyl group.

Claim 13 (New): The process of claim 3, wherein the diols or polyols used in step 1) are obtained by Michael addition of compounds having at least one primary or secondary amino group and at least one hydroxyl group onto ethylenically unsaturated compounds having at least one hydroxyl group.

Claim 14 (New): The process of claim 2, wherein only or predominantly the hydroxyl groups of the diols or polyols having the higher reactivity toward isocyanate groups are reacted with the isocyanate groups in step 1) and the hydroxyl groups of the diols or polyols having the lower reactivity toward isocyanate groups are reacted in step 2).

Claim 15 (New): The process of claim 3, wherein only or predominantly the hydroxyl groups of the diols or polyols having the higher reactivity toward isocyanate groups are reacted with the isocyanate groups in step 1) and the hydroxyl groups of the diols or polyols having the lower reactivity toward isocyanate groups are reacted in step 2).

Claim 16 (New): The process of claim 4, wherein only or predominantly the hydroxyl groups of the diols or polyols having the higher reactivity toward isocyanate groups are reacted with the isocyanate groups in step 1) and the hydroxyl groups of the diols or polyols having the lower reactivity toward isocyanate groups are reacted in step 2).

Claim 17 (New): The process of claim 5, wherein only or predominantly the hydroxyl groups of the diols or polyols having the higher reactivity toward isocyanate groups are reacted with the isocyanate groups in step 1) and the hydroxyl groups of the diols or polyols having the lower reactivity toward isocyanate groups are reacted in step 2).

Claim 18 (New): The process of claim 6, wherein only or predominantly the hydroxyl groups of the diols or polyols having the higher reactivity toward isocyanate groups are reacted with the isocyanate groups in step 1) and the hydroxyl groups of the diols or polyols having the lower reactivity toward isocyanate groups are reacted in step 2).

Claim 19 (New): A dendritic or hyperbranched polyurethane obtained by the process of claim 2.

Claim 20 (New): A dendritic or hyperbranched polyurethane obtained by the process of claim 3.